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at La Ternera, Chili. Ten species of gymnosperms and ferns are enumerated, and they serve to indicate that the beds belong to the Lower Lias.

D. P. P.

PALEONTOLOGY.

Notes on Fossil Fishes.—In the *Bulletin of the Geological Society of America* Mr. C. R. Eastman has an account of the fossil fishes of Jurassic formations in the Black Hills of South Dakota. The paper is supplementary to one by N. H. Darton on the same subject. The Jura-Trias of America has yielded very few fishes, and the scanty remains noted by Mr. Darton and Mr. Eastman represent about all that is known of the fish fauna of the period as represented in American deposits. In the present paper are given descriptions and photographic representations of *Pholidophorus americanus* and *Amiopsis* (?) *dartoni*. The relations of *Pholidophorus* are discussed in some detail, it being regarded as the type of a distinct family, *Pholidophoridae*.

In the *Memoirs of the New York Academy of Sciences* Dr. Bashford Dean discusses the relationships of the alleged fossil lamprey of the Devonian, *Paleospondylus gunni*. In Dr. Dean's view this species is not a lamprey, nor related to the cyclostomes. It is probably a larval form, possibly of the *Arthrodira* genus *Coccosteus*. The *Arthrodira*, according to Dr. Dean, "cannot be strictly included among the fishes," and with their relatives (*Anarthrodira*), all also extinct, should be placed in a distinct class, *Arthrognathi*, by themselves.

In the *Journal of Geology* Mr. C. R. Eastman describes and figures the teeth of a number of Devonian fishes, the following being described as new: *Cladodus monroei*, from the Hamilton formation at Milwaukee; *Dipterus uddeni* and *D. calvini*, from the Middle Devonian, New Buffalo, Iowa; *D. costatus* and *D. mordax*, from North Liberty, Iowa.

D. S. J.

A slab of limestone with numerous specimens of *Uintacrinus socialis* Grinnell, recently placed on exhibition in the Yale University Museum, is noticed and figured in the April number of the *American Journal of Science*. A similar and somewhat larger slab in the Museum of Comparative Zoölogy is figured in the Annual Report of the Museum for 1898-99.